

Quiz 2

1) Simplify:

$$\frac{2x^{2n} + 7x^2 - 15}{2x^{2n} - 3x^n - 14} \cdot \frac{2x^{2n} - 19x^n + 42}{2x^n - 3} \div \frac{x^{2n} - x^n - 30}{x^n + 2}$$

2) Simplify:

$$\frac{x^{-2}y + xy^{-2}}{x^{-2}y^{-2}}$$

3) Simplify:

$$\frac{5 + 2i}{6 - 3i}$$

4) Complete the

Square:

$$2x^2 - 4x - 2$$

5) Solve for y:

$$(a + x)(x - y) = 2axy$$

6) Solve for x:

$$\sqrt{2x + 1} - \sqrt{x} = 1$$

7) Solve for x:

$$(x^2 + x + 3)^2 + 15 = 8(x^2 + x + 3)$$

8) Solve, give interval:

$$1 + 2|x - 1| \leq 9$$